Course Title:	Geometry B			
Common Core High School Geometry Standards				
Unit 8	Right Triangle Trigonometry			
Unit Objectives:	 Define trigonometric ratios Name the three trigonometric functions and their side length ratios Draw the two special right triangles and label their angles and sides Explain how to solve for missing sides when given a special triangle Solve problems involving right triangles, including special right triangles Find missing angles using properties of the sine and cosine of complementary angles Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems 			
Standards	Assignment	Description		
G.SRT.6, G.SRT.7,	8.1 - 8.4 Checkpoint Quiz	Graded Quiz		
G.SRT.8	8.5 - 8.7 Checkpoint Quiz	Graded Quiz		
	Unit 8 DBA	Synchronous Discussion Based Assessment		
	Unit 8 Test	Graded Test		
	Unit 8 Project	End of Unit Project		
Unit 9	General Triangle Trigonometry			
Unit Objectives:	 Derive the Laws of Sines and Cosines and use them to solve problems Explain what information is needed to solve triangles using the Law of Sines Explain what information is needed to solve triangles using the Law of Cosines Apply the Laws of Sines and Law of Cosine to find unknown measurements in right and non-right triangles Derive and apply the formula A=(1/2)ab sin(C) for area of a triangle Explain the relationship between the Law of Cosines and the Pythagorean Theorem relative to a 90 degree angle 			
Standards	Assignment	Description		
G.SRT.9, G.SRT.10,	9.1 - 9.2 Checkpoint Quiz	Graded Quiz		
G.SRT.11	9.3 - 9.5 Checkpoint Quiz	Graded Quiz		
	Unit 9 DBA	Asynchronous Discussion Based Assessment		
	Unit 9 Test	Graded Test		
	Unit 9 Project	End of Unit Project		
Unit 10	Quadrilaterals			
Unit Objectives:	 Identify and classify quadrilaterals List the properties of parallelograms Prove geometric theorems about parallelograms including using triangle congruence Solve for missing angles, side lengths, and bisector lengths in parallelograms 			

	 Use coordinates to solve for area and perimeter of polygons Explain how slope relates to classifying quadrilaterals 		
	Determine if quadrilaterals are rectangles in the coordinate plane		
Standards	Assignment	Description	
G.CO.11, G.SRT.5, G.GPE.4, G.GPE.7	10.1 - 1.04 Checkpoint Quiz	Graded Quiz	
	10.5 - 10.6 Checkpoint Quiz	Graded Quiz	
	Unit 10 DBA	Asynchronous Discussion Based Assessment	
	Unit 10 Test	Graded Test	
	Unit 10 Project	End of Unit Project	
Unit 11	Circles		
Unit Objectives:	 Prove all circles are similar to one another Identify and define parts of a circle Find arc lengths and areas of sectors of circles Calculate the measure of inscribed and circumscribed angles Explain the difference between circumscribed angles and inscribed angles in relationship to a circle Derive the equation of a circle Explain the steps required to convert any equation of a circle into standard form by completing the square Determine the center and radius of a circle and graph a circle Prove a point lies on or off a circle Describe real world objects in terms of the parts of circles 		
	Describe real world object	ts in terms of the parts of circles	
Standards	Describe real world object Assignment	ts in terms of the parts of circles Description	
Standards G.C.1, G.C.2, G.C.5,	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz	ts in terms of the parts of circles Description Graded Quiz	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz	ts in terms of the parts of circles Description Graded Quiz Graded Quiz	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA Unit 11 Test	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment Graded Test	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA Unit 11 Test Unit 11 Project	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment Graded Test End of Unit Project	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA Unit 11 Test Unit 11 Project	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment Graded Test End of Unit Project	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA Unit 11 Test Unit 11 Project Circle Constructions	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment Graded Test End of Unit Project	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1 Unit 12 Unit Objectives:	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA Unit 11 Test Unit 11 Test Unit 11 Project Convert angle measure b Convert angle measure b Construct inscribed and c Construct a square, an ea Construct a tangent line f Derive the formula for arc Solve modeling problems Explain what a radian is a Define radians and detern	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment Graded Test End of Unit Project of inscribed and circumscribed angles etween degrees and radians circumscribed circle of a triangle quilateral triangle and a regular hexagon in a circle rom a point outside the circle e length and area of a sector involving arc length and area of a sector and how it relates to a degree mine how many degrees are in one radian	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1 Unit 12 Unit Objectives: Standards	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA Unit 11 Test Unit 11 Project Circle Constructions Solve for segment length Convert angle measure b Construct inscribed and c Construct a square, an ec Construct a tangent line f Derive the formula for arc Solve modeling problems Explain what a radian is a Define radians and detern	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment Graded Test End of Unit Project of inscribed and circumscribed angles etween degrees and radians sircumscribed circle of a triangle quilateral triangle and a regular hexagon in a circle rom a point outside the circle e length and area of a sector involving arc length and area of a sector and how it relates to a degree mine how many degrees are in one radian	
Standards G.C.1, G.C.2, G.C.5, G.MG.1, G.GPE.1 Unit 12 Unit Objectives: Standards G.C.2, G.C.3, G.C.4,	Describe real world object Assignment 11.1 - 11.3 Checkpoint Quiz 11.4 - 11.5 Checkpoint Quiz Unit 11 DBA Unit 11 Test Unit 11 Test Unit 11 Project Convert angle measure b Convert angle measure b Construct inscribed and c Construct a square, an ec Construct a tangent line f Derive the formula for arc Solve modeling problems Explain what a radian is a Define radians and detern Assignment 12.1 - 12.2 Checkpoint Quiz	Description Graded Quiz Graded Quiz Asynchronous Discussion Based Assessment Graded Test End of Unit Project of inscribed and circumscribed angles etween degrees and radians circumscribed circle of a triangle quilateral triangle and a regular hexagon in a circle rom a point outside the circle e length and area of a sector involving arc length and area of a sector and how it relates to a degree mine how many degrees are in one radian Description Graded Quiz	
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	12.4 - 12.5 Checkpoint Quiz	Graded Quiz
	Unit 12 DBA	Asynchronous Discussion Based Assessment
	Unit 12 Test	Graded Test
	Unit 12 Project	End of Unit Project
Unit 13	Volume	
Unit Objectives:	 Identify volume formulas and use them to solve problems Identify cross-sections from three-dimensional objects and shapes from two-dimensional rotations Derive the equation of a parabola 	
Standards	Assignment	Description
G.GMD.3, G.GMD.4,	13.1 -13.3 Checkpoint Quiz	Graded Quiz
G.GPE.2	13.4 - 13.5 Checkpoint Quiz	Graded Quiz
	Unit 13 DBA	Asynchronous Discussion Based Assessment
	Unit 13 Test	Graded Test
	Unit 13 Project	End of Unit Project
Unit 14	Modeling in Two and Three Dimensions	
Unit Objectives:	 Identify and apply area and volume formulas Explain the steps for solving modeling problems Solve problems by applying Cavalieri's Principle Explain Cavalieri's Principle Identify three-dimensional solids that can be used to model real world objects Solve modeling problems involving the volume of cylinders Solve modeling problems by applying concepts of density based on volume Solve problems using dissection arguments 	
	 Solve modeling problems Solve modeling problems Solve problems using dist 	involving the volume of cylinders by applying concepts of density based on volume section arguments
Standards	 Solve modeling problems Solve modeling problems Solve problems using dist Assignment	involving the volume of cylinders by applying concepts of density based on volume section arguments Description
Standards G.MG.1, G.MG.2,	Solve modeling problems Solve modeling problems Solve problems using dis Assignment Checkpoint Quiz	involving the volume of cylinders by applying concepts of density based on volume section arguments Description Graded Quiz
Standards G.MG.1, G.MG.2, G.GMD.1	Solve modeling problems Solve modeling problems Solve problems using disc Assignment Checkpoint Quiz Checkpoint Quiz	involving the volume of cylinders by applying concepts of density based on volume section arguments Description Graded Quiz Graded Quiz
Standards G.MG.1, G.MG.2, G.GMD.1	Solve modeling problems Solve modeling problems Solve problems using dis Assignment Checkpoint Quiz Unit 14 DBA	involving the volume of cylinders by applying concepts of density based on volume section arguments Description Graded Quiz Graded Quiz Synchronous Discussion Based Assessment
Standards G.MG.1, G.MG.2, G.GMD.1	 Solve modeling problems Solve modeling problems Solve problems using dis Assignment Checkpoint Quiz Checkpoint Quiz Unit 14 DBA Unit 14 Test	involving the volume of cylinders by applying concepts of density based on volume section arguments Description Graded Quiz Graded Quiz Synchronous Discussion Based Assessment Graded Test